

Preliminary Structural Project Report For Bridge Replacement Project

**Structure F-54; 3300 South Over I-215 East (NBL/SBL)
(SR-171 M.P. 15.6)**



Project Manager: Mark Parry
Project Number:
PIN number:
CID number:
Fiscal Year: FY 2008

UDOT

Structures Division
Region 2

Prepared by

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November 2006

Reviewed by Structures Group: xx/xx/2006

REPORT SUMMARY

Scope of Project:

1. Purpose of Report

This report presents an overview of a project to replace Structure F-54 in Region 2. Structure F-54 is an overpass structure at 3300 south over I-215 East. This report is intended to convey the need, scope, schedule, budget, safety and quality control process for the project.

2. Project Information

Region: 2 **Route No.:** SR-171 **Date:** November 2006

Project Name: Bridge Replacement F-54; 3300 South Over I-215 East

R.P.: 15.6 (according to the new UDOT Blue Book)

Project Number:

PIN:

CID:

Project Design: Bridge: UDOT Structures Division; Region 2 Pre-Construction

Project Mgr:

3. Plan:

Replace the bridge.

4. Work items to be completed:

This project will include the following items:

- Remove and Replace the Existing Bridge
- Tie-in Roadway
- Install Safety Upgrades

5. Work items to be deferred:

Roadway and safety items beyond what is related to the bridge repairs will not be included.

6. Design Exceptions:

No Design Exceptions are expected.

7. Maintenance Considerations:

Include Region 2 Maintenance Station 2434 in the concept development.

8. Construction Considerations:

Limitations of Operations, Incentives, A+B, CMGC, and the use of Rapid Deck Replacement methods and other specifications should be considered when demolishing and replacing the bridge.

9. Risk Analysis: (None anticipated at this time)

10. Development Process:

New or Major Reconstruction	<u> x </u>
Rehabilitation	<u> </u>
Preservation	<u> </u>

Schedule of Project:

To get the best quality and bid prices, it is expected that this project needs to be advertised no later than **February 31, 2011**. Design should take approximately one year. Construction should be completed in the fall. A tentative schedule is:

1.	Begin Design Phase	WINTER	2010
2.	Advertisement Date	WINTER	2011
3.	Begin Construction	EARLY SPRING	2011
4.	Complete Construction	FALL	2011

Budget of Project:

1. **Funding Source:** State Funds FY 2008
2. **Recommended Program** \$ 7,000,000
3. **Cost Estimate:** \$ 7,610,000

The scope of this bridge project is to replace the bridge. The following two alternatives were considered options for the bridge replacement: 1) Conventional Bridge Replacement, and 2) Rapid Bridge Replacement. **Structures recommended Rapid Bridge Replacement.**

Innovative/Accelarated Bridge Replacement

F-54, 3300 South Over I-215 East (NBL/SBL)

Item	Quantity	Unit	Unit Cost	Total Cost
Replace Structure F-54	15120	SF		
Misc Roadway Costs for Tie In				
Approaches	1	LUMP		
Safety Upgrades	1	LUMP		
Utilities	1	LUMP		
Incentive/Accelarated Construction	1	LUMP		
Traffic Control	1	LUMP		
Mobilization	1	LUMP		
MOT	1	LUMP		
Public Information Services	1	LUMP		

PE/CE 20%

Contingency 20%

Project Total before Inflation

Inflation Rate @ 6% over 1 Years

TOTAL PROJECT COSTS

\$7,600,454.40

Location Map

